

PETELEN, D.; GUNCAGA, J.

Changes in blood proteins in acute & subacute cholecystitis & cholangitis & their significance. Rozhl. chir. 38 no.4:256-261 Apr 59.

1. Z Chirurgickeho oddelenia KUNM v Banskej Bystrici, prednosta MUDr. Daniel Petelen a z Centralneho laboratorija KUNM v Banskej Bystrici, prednosta MUDr. Emil Bielik.

(CHOLECYSTITIS, blood in
proteins, diag. value (Cz))

(CHOLANGITIS, blood in
proteins, diag. value (Cz))

(BLOOD PROTEINS, in var. dis.
cholangitis & cholecystitis, diag. value (Cz))

PETELEN, D.; GUNCAGA, J.

Changes of blood proteins in abdominal emergencies. *Gas. lek. cesk.*
98 no.35:1097-1100 28 Aug 59

1. Chirurgicke oddelenie KUNZ v Banskej Bystrici, prednosta MUDr. Daniel
Petelen. Centralne laboratorium KUNZ v Banskej Bystrici, prednosta
MUDr. Emil Bielik.

(ABDOMEN ACUTE, blood)
(BLOOD PROTEINS)

HRNCIAR, J.; GUNCAGA, J.; HRNCIAROVA, M.; LICHARDUS, B.; BIELIK, E.;
STANGELOVA, D.

Hyperkalemic and hypokalemic forms of paroxysmal myoplegia. Cas.lek.
cesk 101 no.7:211-218 16 F '62.

1. Interni oddelenie KUNZ v Banskej Bystrici, prednosta MUDr. A. Sitar.
Ustredne laboratorium KUNZ v Banskej Bystrici, prednosta MUDr. E. Bielik.
Endokrinologicky ustav SAV, Bratislava, riaditeľ MUDr. J. Podoba.

(POTASSIUM blood) (MUSCLES diseases)

HRNCLAR, J.; GUNCAGA, J.; HRNCLAROVA, M.; BIELIK, E.

Erythrocytes as an indication for distribution disorders in paroxysmal myoplegias. Cas. lek. cesk. 101 no.29/30:907-911 20 Jl '62.

1. Interne oddelenie KUNZ v Banskej Bystrici, prednosta MUDr. A. Sitar,
Ustredne laboratorium KUNZ v Banskej Bystrici, prednosta MUDr. E. Bielik.

(WATER-ELECTROLYTE BALANCE physiol)

(MUSCLES diseases)

(ERYTHROCYTES chemistry)

HRNCTAR, J.; HRNCTAROVA, M.; GUNCAGA, J.

3 forms of paroxysmal myoplegia. Cas. lek. cesk. 104 no.6:145-151
12 F'65.

1. Interne oddelenie Krajskeho ustavu narodniho zdravi v Banskej
Bystrici (veduci: MUDr. A. Sitar) a Ustredni biochemicke laborato-
rium Krajskeho ustavu narodniho zdravi v Banskej Bystrici (veduci:
MUDr. E. Bilek)..

Gunchenko, A.I.

USSR/Magnetism - Ferromagnetism

F-4

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 12001
Author : Gunchenko, A.I., Frantsevich - Zabludovskaya, T.F.,
 Frantsevich, I.N., Chekhova, O.A.
Inst : -
Title : Magnetically-soft Metal-Ceramic Materials.
Orig Pub : Poroshkovaya metallurgiya, Yaroslavl', 1956, 279-294

Abstract : Description of the technology of obtaining powdered electrolytic alloys of the molybdenum-permalloy type and of the supermalloy type. Alloys of permalloy were prepared by electrolysis of solutions containing nickel, iron, molybdenum, manganese, and copper in varying concentrations. The materials obtained in this manner were ground into a fine powder in several fractions from 100 to 270 mesh, from which the rods were made by pressing and sintering. Magnets of commercial powder of electrolytic iron, subjected to annealing, were made simultaneously.

Card 1/2

USSR/Magnetism - Ferromagnetism

F-4

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 12001 CIA-RDP86-00513R000617330009-2"

Comparative investigations of the magnetic properties of specimens, obtained with various pressures and annealing conditions, have disclosed a substantial dependence of the coercive force and of the magnetic susceptibility on the methods of manufacture. As a result of the investigations, the authors have found the temperature and pressure conditions under which the magnetic properties of the materials made of powders are close to the properties of cast materials (see Abstract 12004).

Card 2/2

GUNCHENKO, A.I.; FRANTSEVICH-ZABLUDOVSKAYA, T.F.; FRANTSEVICH, I.N.;
CHEKHOVA, O.A.

Magnetically soft ceramic-metal materials. Report No.2. Vop.
por.met. i prochn.mat. no.5:90-103 '58. (MIRA 12:8)
(Cermets--Magnetic properties)

45259
S/226/62/000/006/011/016
E039/E535

16.7100

AUTHORS: Vaynshteyn, E.Ye., Gunchenko, A.I., Kotlyar, B.I.,
Ovrutskaya, R.M. and Shapiro, G.A.

TITLE: The effect of small additions of oxides of yttrium,
lanthanum and cerium on certain magnetic character-
istics of magnesium-manganese ferrites and their X-ray
spectra

PERIODICAL: Poroshkovaya metallurgiya, no.6 , 1962, 72-80

TEXT: The properties of Mn and Mg-Mn ferrites containing
43 to 50% Fe_2O_3 , from 19 to 50% MnO, from 15 to 28% MgO and for
some ferrites with additions of up to 5% oxides of calcium and
zinc are investigated. The addition of up to 2% La_2O_3 had very
little effect on the induction of the ferrites while the addition
of CeO_2 and Y_2O_3 caused a marked decrease in the induction. The
effect of these additions on the X-ray K spectra of Fe and Mn in
these ferrites is also examined. The changes in the K spectra are
well correlated with the changes in magnetic induction of the
corresponding ferrites. The absorption spectra are most sensitive
to the addition of Y_2O_3 and less so to CeO_2 . In ferrites containing
Card 1/2

The effect of small additions of ... S/226/62/000/006/011/016
E039/E535

a sufficiently large admixture of rare earth elements (more for Ce and significantly less for Y) the effect on the absorption spectrum for iron is to produce an increase in width of the final photoelectric transition level and the appearance of a supplementary absorption band on the short wavelength side of the edge. From the analysis of the experimental data inferences are drawn on the possible mechanism of the effect of admixtures on the energy state of the atoms of the basic components of the ferrites.
There are 10 figures.

ASSOCIATIONS: Institut neorganicheskoy khimii SO AN SSSR
(Institute of Inorganic Chemistry SO AS USSR),
Institut metallokeramiki i spetsialnykh splavov
AN USSR (Institute of Metalceramics and Special
Alloys AS UkrSSR),
Odesskiy pedagogicheskiy institut im.K.D.Ushinskogo
(Odessa Pedagogic Institute imeni K.D.Ushinskogo)

SUBMITTED: April 14, 1962

Card 2/2

FRANTSEVICH, I.N.; GUNCHENKO, A.I.; TUL'CHINSKIY, L.N.

Magnetic properties of manganese ferrites with additions of rare-earth metal oxides. Report no.1. Porosh.met. 2 no.5:55-59 S-0 '62. (MIRA 15:11)

1. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR.
(Manganese ferrate--Magnetic properties)
(Rare earth metals)

VAYNSHTEYN, E.Ye.; GUNCHENKO, A.I.; KOTLYAR, B.I.; OVRUTSKAYA, R.M.;
SHAPIRO, G.A.

Effect of small additions of yttrium, lanthanum, and cerium oxide
on certain magnetic characteristics of magnesium-manganese ferrites
and the X-ray spectra of transition metals in them. Porosh. met.
2 no.6:72-80 N-D '62. (MIRA 15:12)

1. Institut neorganicheskoy khimii Sibirs'kogo otdeleniya AN SSSR,
Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR i Odeskiy
pedagogicheskiy institut imeni K.D.Ushinskogo.
(Ferrates—Magnetic properties) (Rare earth compounds)
(X-ray spectroscopy)

GUNCHENKO, G.A., inzh.

Improving the performance of the MP-2 drive. Elek. i tepl.tiaga
no.8:20-21 Ag '63. (MIRA 16:9)
(Remote control--Equipment and supplies)
(Electric railroads--Substations)

L 00746-67 EWT(1)/EXP(f)/T-2 FDN/WW

ACC NR: AP6005367

SOURCE CODE: UR/0413/66/000/001/0116/0116

AUTHORS: Molodchiy, A. M.; Nechitaylo, A. S.; Ogarkov, A. G.; Vershachevskiy,
V. V.; Gunchenko, I. N.

46
B

ORG: none

TITLE: An ignition system for free piston gas generators and free piston compressors.
Class 46, No. 177708

SOURCE: Izobreteniya, promyshlennyye obraztsy, tehnicheskie znaki, no. 1, 1966, 116

TOPIC TAGS: gas compressor, compressor design, spark ignition, engine ignition system

ABSTRACT: This Author Certificate presents an ignition system for free piston gas generators and free piston compressors, using spark discharges. The system includes a power supply unit, a blocking generator with a transformer and a negative feedback circuit using an RC, an ignition coil, an ignition coil circuit commutator, a discharge capacitor, a contractor, and electric spark plugs (see Fig. 1). The system improves the starting characteristics and reduces the wear of the spark plug electrodes. The system uses an auxiliary triode. The anode of the triode is connected with the load circuit of the blocking generator. The grid of the triode is connected with the secondary winding of the blocking generator transformer through

Card 1/2

UDC: 621.43.044.9

L 00746-67

ACC NR: AP6005367

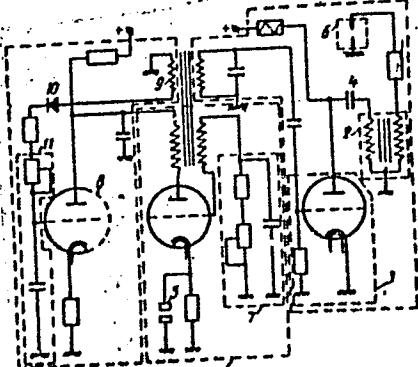


Fig. 1. 1 - blocking generator; 2 - ignition coil; 3 - ignition coil circuit commutator; 4 - discharge capacitor; 5 - contractor; 6 - electric spark plug; 7 - variable negative feedback circuit; 8 - triode; 9 - secondary winding of the transformer; 10 - rectifier; 11 - filter

a rectifier and an RC filter. Orig. art. has: 1 figure.

SUB CODE: 21/ SUBM DATE: 03Feb64

Card 2/2 *fdh*

GUNCHIKO, M.V.

Fine anniversary; the Dyatkovo cut glass plant is 175 years old.
Stek. i ker. 22 no.8:38-41 Ag '65. (MIRA 18:9)

AYZENBERG, Yu.B., inzh.; GUNCHEV, A.V., inzh.; DEMCHEV, V.I., inzh.;
SVENTITSKIY, I.I., kand. tekhn. nauk

New irradiation apparatus and units for agriculture. Mekh. i
elek. sots. sel'khoz. 21 no.1:36-38 '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy
institut (for Ayzenberg, Gunchev, Demchev). 2. Vsesoyuznyy
nauchno-issledovatel'skiy institut elektrifikatsii sel'skogo
khozyaystva (for Sventitskiy).

(Infrared rays—Physiological effect)

(Ultraviolet rays—Physiological effect)

L 56019-65

ACCESSION NR: AF56018557

UR/0311/64/000/007/0020/0025

5
B

AUTHOR: Demchev, V. I. (Engineer); Gunchev, A. V. (Engineer)

TITLE: Ultraviolet and infrared radiation devices for use in agriculture

SOURCE: Svetotekhnika, no. 7, 1964, 20-25

TOPIC TAGS: agricultural engineering, IR lamp, UV equipment, agriculture

ABSTRACT: The article describes in detail the agricultural application of 5 ultraviolet and 3 infrared lamps developed by the All-Union Scientific-Research Institute for Light Technology and the All-Union Scientific-Research Institute for the Electrification of Agriculture. However, the widespread use of such lamps is not possible because of a very limited production of the actual UV and IR radiation-producing elements. Orig. art. has 5 figures, 4 graphs, and 2 tables.

ASSOCIATION: Vsesoyuznyy svetotekhnicheskiy institut (All-Union Institute for Light Technology)

SUBMITTED: 00

ENCL: 00

SUB CODE: OP, GO

NO REF Sov: 000

OTHER: 000

JPRS

Card 1/1 CAC

GIL'BERG, L.; POKRYV, I.; OZHIGEV, I.

Some experiments on regulation by means of an analogous model.

Dokl. Bolg. akad. nauk 17 no.7:661-664 '64.

I. Predstavлено чл. корр. D. Mateyevым.

TRYKOV, T.P. (Bulgariya); GUNCHEV, L.A. (Bulgariya); MARANGOZOV, S.V.
(Polgariya)

Synthesis of a high-quality automatic control system using a model
with satisfaction of the invariance principle. Avtomatyka 10 no.1:35-
41 '65. (MIRA 1836)

GUNCHEV, Liuben, At., inzh.; TENEV, Ivan P., inzh.; LEKOV, Kostadin
As., inzh.

A self-adjusting system for automatic analysis, and synthesis
of systems for automatic control. Tekhnika Bulg 13 no.1:3-6'64

GUNCHEV, L. At.; PIMITROV, L. B.

Electronic modeling of the tracking system with characteristics close to the optimal. Godishnik mash elekt 12 no. 2:29-48 '62 [publ. '63].

MINCHEV, D. St.; GUNCHEV, L. At.

Electronic modeling of a generator-engine system with
magnetic amplifier for the drive of the EKG-4 excavator.
Godishnik mash elekt 12 no. 2:121-136 '62 [publ. '63].

GIDIKOV, A.; TMOV, I.; GUNCHEV, L.

Studies of regulation with the aid of analogue models. Doklady
BAN 17 no.7:661-664 1971.

1. Pr dostavleno chl.korr.D. Mateyevym [Mateev, D.].

GUNCHEV, L.A.; TENEV, I.P.; LEKOV, K.A.

Multichannel automatic optimizer for self-tuning models. Godishnik
mash elekt 13 no.2:231-242 '63 [publ. '64]

TRAKHOV, T.P.; GURICHIN, L. At., KALANOCZ V., S. At.

Synthesis by modeling the qualitative system of automatic control
satisfying the principle of invariance. Godishnik mash elektr 13 no.2:
9-22 ('6). [publ. '64]

MINDOV, Dr. G. A., Author. MINDOV, Liutin V. I., Trans.

Use of analog computers in studying the hydro-mechanical system of the hoisting mechanism of a 11G-4,6 excavator when digging. Tekhnika Bulg 13 no.10:11-15 '64.

1. Machinery and Electrotechnical Institute, Sofia.

GUNCHEV, TSONIU.

Gunchev, Tsoniu Tekhnologiiia na trikotazha; uchebnik za V kurs (VIII cl.) na tekhnikumite po tekstili. Sofiya ("narodna prosвета") 1952. 205 p. (Technology of knitted fabrics; a textbook for the fifth year of technical textile schools.

SO: Monthly List of East European Accessions, L C, Vol. 3 No. 1 Jan. '54 Uncl.

GUNCHEV, Z.

SCIENCE

Periodical: GODISHNIK Vol. 50, no. 1, 1955/56 (published 1957)

GUNCHEV, Z. Production credit for breeding farm animals during the period of the First Five-Year Economic Plan, 1949-1953. p. 91

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2
February 1959, Unclass.

GUNCHEV, Zdravko, d-r, prof.

Essence and short methodology of plant-culture experiments for
the teaching in the secondary polytechnic schools. (To be contd.)
Biol i khim 4 no.3:26-32 '62.

GUNCHEV, Zdravko Stefanov, profesor po osnovi na selskoto stapanstvo
(Sofia)

How we can accelerate the fruit production of the fruit trees. Prir
i znanie 13 no.2:1-4 F '60. (EEAI 9:11)

1. Biolog-Geologo-Geografski fakultet, Sofiski durzhaven universitet.
(Fruit)

VELCHEV, Ivan; GUNCHEV, Zdravko; KRUSTEV, Krustiu

Economic geographical characteristics of the commune Roman in
the light of the development and problems of the Deveti Septemvri
Cooperative Farm. Godishnik biol 54 no.3:195-257 '59/'60
[publ. '61].

GUNCHEV, Zdravko St., prof. d-r

Unsoundness of the grassland system in agriculture, Prir i znanie 15
no.4:1-7 Ap '62.

GUNCHEV, Zdr., prof.

Essence and short methodology of plant-culture experiments for
the teaching in the secondary polytechnic schools. (Conclusion)
Biol i khim 4 no.4:23-31 '62.

GUNCHEV, Zdravko St.; NIKONOV, Radev RAYCHEV, Nikolayevich; Todorov, Todor G.

Economic effectiveness of mineral fertilizers. Sozialistika No. 56 no.3:335-414 '61-'62 [publ. '63].

GUNCHEVA, T. Dimitrova, asistent; GIUROV, Mikho, st. agronom

Hops. Prir i znanie 14 no.6:3-5 Je '61.

(EEAI 10:9/10)

1. Upravlenie Durzhavni zemedelski stopanstva.

(Hops)

GUNCHEVA, Tamara D.

Italian varieties of wheat and their significance for increasing the
yields. Prir i znanie 13 no.5:1-5 My '60. (EEAI 9:11)
(Italy--Wheat)

GUNCHEVA, Tamara Dimitrova
SURNAME (in caps); Given Name(s)

Country: Bulgaria

Academic Degrees: not indicated

Affiliation: not indicated

Source: Sofia, Geografiya, No 1, 1961, pp 5-7

Data: "Expanded Corn Production."

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617330009-2

GUNCHEVA, Tamara Dimitrova; DIKOVA, Nadezhda Sofronieva

Cotton. Prir i znanie 14 no.7:1-5 S '61.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617330009-2"

GUNCHEVA, Tamara Dim.

The sunflower, our main oil yielding culture. Prir i znanie
15 no.1:5-7 Ja '62.

1. Vissh selsko-selopanski institut "Georgi Dimitrov."

GUNCHEVA, T.; GEORGIEV, D.

Progress made in irrigation farming in Bulgaria. Prir i
znanie 15 no.6:1-4 Je '62.

1. Vissz selsko-selopanski institut "G. Dimitrov" (for Guncheva).
2. Institut po khidrotekhnika i melioratsii (for Georgiev).

GUNCHEVA, T.; GEORGIYEV, D. (Bulgariya)

Success of irrigation farming in Bulgaria. Nauka i zhizn' 30
no.1:38-40 Ja '63. (MIRA 16:4)

(Bulgaria—Irrigation farming)

GUNCHEVA, Tamara Dim.

Realizations in the selection of grapevine in Bulgaria. Prir i znanie
16 no.9:1-5 N '63.

1. Vissch selskostopanski institut "G. Dimitrov".

GUNDA, B.

Primitive means of transportation in Zakarovce. p. 150. SLOVENSKY
NARODOPIS. (Slovenska akadémia vied) Bratislava. Vol. 3, no. 2, 1955

SOURCE: East European Accessions List, (EEAL), Library of Congress
Vol. 4, no. 12, December 1955

GUNDA, BELA.

Neprajzi gyujtouston. Debrecen, Alföldi Magveto, 1956. 171 p. (My ethnographic field work. illus., map, indexes)

SO: Monthly Index of East European Acquisitions(EEAI) Vol. 6, No. 11 November 1957

GRINDA, J.

Some notes to the study of flails and corn bins in Slovakia. p. 157.
"VY NEDY HANODO". (Slovenska akademia vied) Bratislava. Vol. 4,
no. 2, 1956.

SOURCE: East European Acquisitions List, Vol. 5, no. 9, September 1956

GUNDA, B.

Traces of totemism in the Hungarian tradition about the taltos. p. 63.

EVKONYVE. Deri Museum. Debrecen, Hungary. 1957 (published 1958).

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11,
November 1959.

Uncl.

GUNDA, B.

Grinding stones of prehistoric character in the area of the Carpathian Mountains. p. 333.

ETHNOGRAPHIA. (Magyar Neprajzi Társaság) Budapest, Hungary. Vol. 69, no. 3, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 7, July 1959
Uncl.

GUNDA, Bela, dr., egyetemi tanar

The most ancient transportation means on land. Elet tud 16 no.35:
1111-1114 27 Ag '61.

3185. PREPARATION OF TYPHOID VACCINE FROM SEPARATED ANTIGENIC COMPONENTS. I. PREPARATION OF PURIFIED O AND VI ANTIGENS - Gunda L., József L., Richter P., and Vári A. "Human" State Vaccine Inst. (or Prod. and Res.) Budapest - ACTA MICROBOL. ACAD. SCI. HUNG. 1957, 4/3 (263-277) Graphs 2 Tables 3 Illus. 4

Vi antigen was prepared from *S. typhi*, *S. balleup* and *Esch. coli*. O antigen was prepared from *S. typhi* only. Acetone-dried cells of each strain underwent a similar procedure of preliminary purification, before separating the two specific substances. The former consisted of repeated acetone and ethyl ether washings yielding a dry powder which was further treated by trypsin and precipitated by alcohol. From this final precipitate, O and Vi antigens were separated after NaNO_3 treatment by alcohol fractionation. Further purification of the two antigenic components was achieved by repeated alcohol and acetone fractionation. The purity of the preparations was controlled by nitrogen determination, paper chromatography and electrophoresis. All these methods revealed high purity and homogeneity of the preparations.

Koch - Budapest (IV, 17*)

СОВЕТСКАЯ ССР

AID P - 2994

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 9/28

Author : Gundarev, I. A., Eng.

Title : Repairing plate valves of piston compressors

Periodical : Energetik, 6, 16-17, Je 1955

Abstract : The author describes the way of repairing plate valves of piston compressors. One drawing.

Institution : None

Submitted : No date

GUNDAREV, I.A., starshiy master

Device for centering semiclutches in places with difficult
access. Energetik 10 no.6:16-17 Je '62. (MIRA 16:3)
(Clutches (Machinery))

CHERNYY, G.I., kand. tekhn. nauk; GUNDAREV, K.A., inzh.

Underworking strip mine tracks by underground mining in the
Krivoy Rog Basin. Nauch. zap. Ukrniiproekta no.10:37-42 '63.
(MIRA 17:6)

FUDALAEV, R. P.

31019. CUDALEV, F. M. (IM ALEXANDROVICH, YE. V.

Dva sluchaya lecheniya samoproizvol'noy gangreny tkanevoy terapiey
po metody akademika V. P. filatova. Khirurgiya, 1949, No. 9, s. 69-71

GUNDAREV, K. M.

Treatment of presenile gangrene with tissue therapy according
to Filatov's method. Khirurgiia, Moskva no.7:61-63 July 1950.
(CLML 20:1)

I. Lt-Col, Medical Corps.

FLORIANOVICH, N.M.; BORISOVA, O.I.; GUNDAROV, V.P.

The SEL-2, new model of the automatic erythrocyte counting apparatus. Nov. med. tekhn. no.2:20-24 '62.

(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh instrumentov i oborudovaniya.

GUNDAROV, A.

Express motorbuses. Avt.transp. 42 no.1:15-16 Ja '64.(MIRA 17:2)

1. Zamestitel' direktora Kaunasskogo avtobusnogo parka.

GOLOVA, O.P.; EPSHTEYN, Ya.V.; SERGEYEVA, V.N.; KALNIN'SH, A.I. [Kalinins, A.];
ODINTSOV, P.N.; MAKSIMENKO, N.S.; PANASYUK, V.G.; Prinimali
uchastiye: MERLIS, N.M.; DURININA, L.I.; BISENIYETSE, S.K.[Biseniece, S.];
GUNDARS, A.Yu.; FEDORCHENKO, R.I.; MINAKOVA, V.I.

New method for the complete chemical processing of plant tissues.
Gidroliz. i lesokhim. prom. 14 no.7:4-8 '61. (vira 14:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Golova, Epshteyn, Merlis, Durinina).
2. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latviyskoy SSR (for Sergeyeva, Kalnin'sh, Odintsov, Bisenietse, Gundars).
3. Krasnodarskiy gidroliznyy zavod (for Maksimenko, Fedorchenko, Minakova).
4. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for Panasyuk).

(Plant cells and tissues)
(Botanical chemistry)

PUSTOVYOT, V.S., akademik, red.; SUSLOV, V.M., kand. ekon. nauk,
otv. red.; ALEKSEYEVA, Ye.I., , kand. sel'khoz. nauk,
red.; BUZINOV, P.A., red.; VASIL'YEV, D.S., kand. sel'-
khoz. nauk, red.; VOSKRESENSKAYA, G.S., red.; GUNDAYEV,
A.I., red.; IGNAT'YEV, B.K., kand. sel'khoz. nauk, red.;
MAKSINOVA, A.Ya., red.; MOSKALENKO, V.I., red.;
PANCHENKO, A.Ya., red.; TIKHONOV, O.I., red.; SHPOTA, V.I.,
kand. sel'khoz. nauk, red.; MONOVA, Ye.S., red.; LAPSHINA,
O.V., red.

[Oilseed and aromatic crops; transactions for 1912-1926]
Maslichnye i efiromaslichnye kul'tury; trudy za 1912-
1962 gg. Pod obshchei red. V.S.Pustovoita. Moskva, Sel'-
khozizdat, 1963. 575 p. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut maslich-
nykh i efiromaslichnykh kul'tur. 2. Vsesoyuznaya akademiya
sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for
Pustovoyt). 3. Direktor Vsesoyuznogo nauchno-issledovatel'-
skogo instituta maslichnykh i efiromaslichnykh kul'tur (for
Suslov).

Author : Gundayev, A.I.
 Inst : ~~Technical Crops. Oil Plants. Sugar-
 Plants~~
 Title : Flaxseed in Krasnoyarskiy Kray

Orig Pub: V sb.: Maslichn. kul'tury v vost. r-nakh SSSR.
 Krasnodar, "Sov. Kuban'", 1956, 148-150.

Abstract: It has been established on the basis of production trials made on variety plots and experimental stations that flaxseed flax under the conditions found in Krasnoyarskiy Kray is considerably more productive than falseflax and makes it possible, besides, to obtain straw for preparing fiber. The climatic conditions of the forest-steppe and steppe districts of the Kray are favorable for flax growing. Planned organization should considerably expand the future flax planting at the expense of falseflax.
 --A.I. Smirnov

Card #: 1/1

112

Abs Jour: Ref Zhur-Diol., No 17, 1958, 77778.

Author : Gundayev, A.I.
 Inst :
 Title : Periods of Sowing of Lactarius Deliciousus in the
 Krasnoyarsk Kray.

Orig Pub: V sb.: Maslichn. kul'tury v vost. r-nakh SSSR.
 Krasnodar, "Sov. Kuban'", 1956, 159-160.

Abstract: Sowing in the end of May - beginning of June (after additional pre-sowing rolling) provided an increase of harvest of seeds, in comparison with the harvest during usual early periods, an average of 25%. With later period of sowing, the choking was significantly less.

Card #: 1/1

GUNDEL, Istvan

Reconstruction of the Balatonszarszo stopping place. Vasut
12 no.1:22 30 Ja '62.

Gunder, O. A.

USSR

Molecular form of acetamide. S. S. Urazovskii and O. A. Gunder (V. I. Lenin Polytech. Inst., Kharkov). *Zhurnal Neuk. S.S.R.* 91, 855-8 (1963).—Liquid ArNH_2 at 95° shows the following infrared absorption bands (wave no. in cm^{-1} , intensity on scale of Shorygin (in parenthesis) (C.A. 36, 5427⁷), and assignment given): 447 (8), 570 (9), deformation C-O-N angle; 802 (24), 962 (9), 1001 (2.5), valency vibration of chain; 1123 (9.5) NH group perpendicular to bond; 1348 (8.5), 1388 (9.5), 1418 (2), deformation of CII; 1612 (8.5), 1664 (11.5), valency vibration of C=O; 2935 (28), 2997 (7), valency vibration of CH; 3101 (3), 3343 (3.5), valency vibration of NH. When AcNH_2 is slowly cooled after previous conditioning at 90° , bands 1612 and 1664 undergo progressive hypsochromic alteration in intensity. About 71.1° (n.p. of β -modification) a new line at 984 cm^{-1} appears and grows in intensity with cooling. Band 862 drops in intensity; 570 shifts to 583 cm^{-1} . These changes are assigned to changing proportions of a sym. bimol. α -modification having a structure similar to that of the fatty acids and a less sym., monomeric β -modification, having a periodic alteration of the amide H-O interaction, assoc. as the NH₂ group pivots on the C-N bond. This would account for the 2 NH frequencies and the decreased importance of the highly modified carbonyl bond. 1612, Band 984 is due to the lower symmetry of the β -modification and the decreased C-O-N angle alters 570. The presence of a tautomeric $\text{MeC}(=\text{O})\text{NH}_2$ is not the cause of the peculiarities in the C=O and NH bands since monoalkylation eliminates them without prohibiting tautomerism. In H_2O , 1612 and 1664 also show a hypsochromic alteration. CHCl_3 assoc. with the C=O group, cutting down the bimol. assoc. and freeing the NH₂ group. Bands 1612 and 1664 shift to 1648 and 1674 cm^{-1} , resp. Band 984 appears, and a new band at 1634 cm^{-1} appears. This is more normal for a NH₂ deformation. AcMe assoc. with the amide H atoms of both

M. H. Scott

monomer and dimer. Band 1012 drops to 4.5 in intensity; 1604 shifts to 1631 cm.⁻¹ and increases to 12.5 in intensity. Dioxane assoc. to such an extent with the amide H atoms that the C:O group is almost freed from assoc., and a new band at 1099 cm.⁻¹ closer to the normal C:O range appears.

J. H. Scott

GUNDER, O.A.; SMIRNOV, V.M.

Thermographic study of petroleum bitumens. Izv. vys. ucheb. zav.;
neft' i gaz 3 no.1:79-84 '60. (MIRA 14:10)

1. Khar'kovskiy avtomobil'dorozhnyy institut.
(Bitumen--Analysis)

S/081/62/000/016/027/043
B168/B186

AUTHOR: Gunder, O. A.

TITLE: Effects of heat treatment on the properties and structure
of polycaprolactam components

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 16, 1962, 520, abstract
16P51 (In collection: Plastmassy v mashinostr. i
priborostr. Kiyev, Gostekhizdat USSR, 1961, 245-251)

TEXT: In order to determine the effects of external conditions (medium
and temperature) on the structure and therefore on the properties of poly-
caprolactam components, samples of polycaprolactam were subjected to heat
treatment (boiling in water for 15 min, per 1 mm thickness of component
and heating in MS-20 aviation oil at 110-120, 150-160 and 180-190°C) and
to physical, chemical, mechanical and structural tests (thermographic
analysis). It was found that heat treatment of the samples in an oil
medium favors the formation of a homogeneous crystalline structure and
improves certain mechanical properties (tensile and compressive strength
and static bending strength) and can be recommended for components which

Card 1/2

Effects of heat treatment on the...

S/081/62/000/016/027/043
B168/B186

have an abrasive function. Heat treatment of polycaprolactam components by boiling in water has no effect on the structure of the substance. The thermographic analysis showed that the temperature of an inert medium used for heat treatment of polycaprolactam components must be < 160°C (upper limit of the resin-softening range). [Abstracter's note: Complete translation.]

Card 2/2

S/191/62/000/004/005/017
B110/B130

N.8080

AUTHORS: Gunder, O. A., Livshits, I. M.

TITLE: Investigation of polycaprolactam powders

PERIODICAL: Plasticheskiye massy, no. 4, 1962, 12-15

TEXT: The authors studied the physical and chemical characteristics of polycaprolactam powders obtained by various methods of reprecipitation. Adhesion to a metal surface was also determined. Polycaprolactam powder was produced: (1) by dissolving in acetic acid, (2) melting in glycerin, and (3) precipitating from hydrochloric acid (s.w. 1.19) by means of aqueous acetone (3:7). The degree of dispersion of the powder depends on the polarity and concentration of the precipitating agent. It increases up to 30-35 % concentration and becomes constant when the capron surface is fully covered with acetone molecules. The yield is 95-96 %. Powders precipitated from hydrochloric acid solution polymerize only slightly less than the initial caprolactam. This is less for powder recrystallized from acetic acid, and still less after melting in glycerin. In this case the polymer is destroyed and macromolecules are formed with one-half or

Card 1/2

X

S/191/62/000/004/005/017

B110/B138

Investigation of polycaprolactam...

one-third of the initial degree of polymerization. The powder structures were studied (1) by differential thermographic analysis with a MK-55 (PK-55) photorecording pyrometer and chromel/alumel thermocouple, and (2) by polarization microscopy. Two endothermic effects were observed: (1) due to removal of water, (2) due to the capron melting and passing into the viscous flow state. A distinct peak and a break in the thermogram for powder reprecipitated from acetic acid with slow cooling indicate crystalline structure. Distinct minima in the thermogram for capron from acetic acid with rapid cooling, and capron from hydrochloric acid, point to a phase transformation, but only in a certain temperature range, as indicated by the blurred peak and a flat break on the curve from a simple recording. The blurred peak is probably associated with a higher concentration of the amorphous phase than is the distinct peak. Comparing thermograms for powders with different degrees of dispersion it is suggested that crystallinity and spherolite dimensions increase with decreasing degree of dispersion. Polarization-microscopic studies showed spherolites for recrystallized caprolactam, and a fine-grained structure for caprolactam precipitated from aqueous acetone solution. There are 3 figures and 2 tables.

Card 2/2

GUNDER, O. A. [Hunder, O. A.], kand. khim. nauk; BABIR'OVA, R. I., inzh.

Polycaprolactam powder. Khim. prom. [Ukr.] no. 1:81-82 Ja-Mr '62.
(MIRA 15:10)

1. Khar'kovskiy avtodoroschnyy institut (for Gunder). 2. Khar'-
kovskiy zavod "Serp i molot" (for Babir'ova).

(Polyamides)

GUNDER, O.A.; LIVSHITS, I.M.

Investigation of polycaprolactam powders. Plast.massy no.4:
13-15 '62. (MIRA 15:4)
(Polyamides)

GUNDER, O.A.; LYSYKH, A.N.

Decrease of the water absorption of capron parts. Plast.massy no.4:
(MIRA 16:4)
70-72 '63.
(Polyamides) (Hygroscopicity)

L 35525-65 EWG(j)/EWT(m)/EPF(c)/EWP(j)/T/EWA(h)/EWA(l) Pg-6/Fig-6/Peb RIS
ACCESSION NR: AP5008205 s/0206/65/000/005/0071/0072

AUTHORS: Gunder, O. A.; Grachev, N. M.; Popilin, O. N.; Lifits, A. L.; Ponomarev, Ye. N.; Telegin, V. G.; Tokareva, A. A.

TITLE: A method for producing plastic scintillators. Class 39, No. 168884

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 11-72

TOPIC TAGS: plastic, scintillator, polymerization

ABSTRACT: This Author Certificate presents a method for producing plastic scintillators by thermal polymerization in bulk of vinyl toluene in the presence of phosphors. In order to increase the light output and the heat resistance of the scintillators, a mixture of ortho- and paraviny1 toluene is used for the vinyl toluene isomers.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov (All-Union Scientific Research Institute of Single Crystals)

SUBMITTED: 06Mar64

ENCL: 00

SUB CODE: MT, OP

NO REF Sov: 000
Card 1/1

OTHER: 000

L 52124-65 EWG(j)/EWT(m)/EWP(j)/EWA(h)/EWA(l) PC-4/Feb RM

ACCESSION NR: AP5015280

UR/0286/65/000/009/0064/0064

AUTHORS: Grachev, N. M.; Dykhanova, A. S.; Gunder, O. A.; Bezuglyy, V. D.;
Krasovitskiy, B. M.

TITLE: A method for obtaining film scintillators. / Class 39, No. 170650

SOURCE: Byulleten' izobreteni i tovarnykh znakov, no. 9, 1965, 64

TOPIC TAGS: scintillator, thermal stability, light emission, polymer, polymerization, tetramethylstyrene

ABSTRACT: This Author Certificate presents a method for obtaining film scintillators based on polystyrene. To increase the heat resistance and the light emission of a scintillator, a polymer obtained during the polymerization of 2,3,5,6-tetramethylstyrene is used as the styrene polymer.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov
(All-Union Scientific Research Institute of Single Crystals)

SUBMITTED: 22Apr63

ENCL: 00

SUB CODE: 0C, 0P

NO REF Sov: 000

OTHER: 000

Card 1/1 mB

L 62828-65 EFT(m)/EPF(c)/EPF(j) Po-4/Pr-4/Ps-4/Teb DIAE
ACCESSION NR: AP5019048

WW/JAJ/RM
UR/0286/05/000/012/0075/0075

621.039

678.746.32

39

43

AUTHOR: Chernobay, A. V.; Gunder, O. A.; Dmitrievskaya, L. I.; Krasovitskiy,
B. M.; Mil'ner, R. S.; Dovgushnev, N. I.

TITLE: A method for producing plastic scintillators. Class 39, No. 172040¹⁵

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965. 75

TOPIC TAGS: scintillator, block polymerization, plastic

ABSTRACT: This Author's Certificate introduces a method for producing plastic scintillators by thermal block polymerization of styrene in the presence of scintillating additives which are capable of copolymerization with styrene. The light output of the scintillators is increased by using *n*-vinylterphenyl as the scintillating additive.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov (All-Union Scientific Research Institute of Single Crystals)

Card 1/2

L 62828-65

ACCESSION NR: AP5019048

SUMMITTED: 02Jan64

ENCL: 00

SUB CODE: MT, GC

NO REF Sov: 000

OTHER: 000

XBL
Card 2/2

L 1793-66 EWT(m)/EPF(c)/EWP(j)/T/EWA(h)/EWA(l) RM

ACCESSION NR: AP5024401

UR/0286/65/000/015/0081/0081

678.71/74

621.039

44.5

44

D

AUTHOR: Chernobay, A. V.; Gunder, O. A.; Kolesnikov, L. N.

TITLE: Preparation of plastic scintillators Class 39, No. 173409

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 81

TOPIC TAGS: scintillator, plastic scintillator, luminiscence

ABSTRACT: An Author Certificate has been issued for a preparative method for plastic scintillators with an increased average effective atomic number by thermal bulk polymerization of vinylaromatic monomers in the presence of phosphors and organic compounds. To increase the luminiscence yield of the scintillators, p-di-bromobenzene, hexachlorobenzene or fluorostyrene are used as the organic compounds.

[BO]

ASSOCIATION: Vsesoyuznyy nauchno issledovatel'skiy institut monokristallov (All-Union Scientific Research Institute of Single Crystals)

Card 1/1

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617330009-2

L 1793-66

ACCESSION NR: AF5024401

SUBMITTED: 06Mar64

ENCL: 00

SUB CODE: OP, MT

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4112

M.C.
Card 2/2

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R000617330009-2"

L "13615-66 EWT(m)/EWP(v)/EWP(j)/T/ETC(m) WW/RM

ACC NR: AP6000958

(A)

SOURCE CODE: UR/0286/65/000/022/0012/0042

AUTHORS: Chernobay, A. V.; Gunder, O. A.; Pjimakhov, A. S.

34

B

ORG: none

TITLE: A method for cementing optical elements. Class 22, No. 176346 [announced by All-Union Scientific Research Institute of Single Crystals (Vsesoyuznyy nauchno-issledovatel'skiy institut monokristallov)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 42

TOPIC TAGS: polymer, adhesive, optical element, cross linking agent, copolymerization, styrol

ABSTRACT: This Author Certificate presents a method for cementing optical elements with adhesives based on polymer materials. To increase the optico-thermal stability of the cemented joints, a copolymer of styrol and citraconic anhydride with a cross-linking agent is used as the adhesive. Dimethacrylate of ethylene glycol may be employed as the cross-linking agent.

SUB CODE: 13, 07

SUBM DATE: 02Jan64

Card 1/1 HU

UDC: 621.792:678.746.22:547.462.3

LEUSHKIN, I.I., inzh.; GUNDEROV, V.V., master; CHERNYSHKOV, N.A., inzh.

Two attachments to an eight-loop oscillograph. Elek. sta. 35 no.8:75-
76 Ag '64. (MIRA 17:12)

GUNDISCH, Fr. (Sibiu)

Distribution of the luminiscent moss (*Schistostega pennata* Hedw.)
Natura Biologie 14 no.3:79-80 My-Je '62.

EXCELSIOR MEDICA Sec. 16 Vol. 1/3

1917. The effect of mitosis-influencing substances on the activity of alkaline and acid tissue phosphatase. Mitózist befolyásoló gyógyszerek hatása a szöveti alkális és savanyú foszfátáz aktivitására. GÜNDISCHT M., HADNAGY G., FESZT T. and KEMÉNY G. MÁROS-VÁSÁRHELYI Szövettani Tanszék és Egyesített Klin. Kórhá Onkol. Osztályá Ora. Szk 1957, 3/4-5 (68-76) Tables 1 Illus. 6

The alkaline and acid phosphatase activities of tissues from liver, kidney, spleen, duodenum and adrenals of rats, guinea-pigs and mice were studied. Sarcomycin, actinomycin and colchicine decreased the alkaline phosphatase activity. Teropterin, aminopterin, sanamycin, colchicine and degranol (1:6-bis(β -chlorethylamino)-1:6-desoxy-D-mannite dichlorhydrate) had an inhibitory effect on the acid phosphatase activity. The mitosis-stimulating vit. B₁₂ increased both alkaline and phosphatase activity. These experiments prove that the cytostatic mechanism of the substances tested is not necessarily based on their property to influence these enzymes.

RUMANIA/Human and Animal Physiology (Normal and Pathological)
Respiration.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26663

Author : Hirsch, Simon; Gundisch, Mihaly; Feszt, Tibor

Inst : -

Title : The reaction of Pleural and Lung Tissue in Experimental
Animals in Which Pneumothorax was Induced and Hypertonic
Solution of Glucosa was Introduced Into Pleura.

Orig Pub : Rev. med. (RPR), 1958, 4, № 2, 132-137

Abstract : No abstract.

Card 1/1

RUMANIA/Human and Animal Physiology (Normal and Pathological)
Metabolism. Vitamins.

T

Abs Jour : Ref Zhur Biol., № 6, 1959, 26300

Author : Hadnagy, Cs., Horvath, A., Gundisch, M., Feszt, T.,
Kemeny, Gh.

Inst : -

Title : The Role of Vitamin B₁₂ in Intermediate Carbohydrate
Metabolism.

Orig Pub : Fiziol. norm. si patol., 1958, 5, № 2, 143-148

Abstract : Patients (40 individuals with various diseases) were
loaded twice with glucose (I) from a calculation of 1g/kg
(second after 2-6 days). In repeated loading, 20-30 min
prior to administration of I, 50-1050 gamma of vitamin
B₁₂ was introduced subcutaneously. In cases of intole-
rance to I (unsubduable vomiting of pregnant women, Addi-
son's disease and others) B₁₂ normalized it, speeding up
the deposition of I in the tissues, which is explained by

Card 1/2

GUNDISCH, M.; FESZT, T.

A histochemical study of the liver of *Listeria monocytogenes* infected rats. Rev. sci. med. 5 no.3/4:165-168 '60.
(LISTERIA INFECTIONS exper.) (LIVER chem.)

KEMENY, C.; FESZT, T.; GUNDISCH, M.; HADNAGY, Cs.

Investigations concerning the action of urethane, trypaflavin,
colchicine and quinone-diethyl-amine on tissular phosphatases.
Rumanian med. rev. 7 no.3:3-6 Ja-Mr'64

*

GUNDISCH, M., prof.; FESZT, T.; BARBU, Z.; BOIS, M.

A histochemical study of alkaline phosphatase in experimental tuberculosis influenced by chlorpromazine. Rumanian M Rev. no.4: 7-10 O-D '60.

1. This work was carried out at the Chair of Histology (Prof. M.Gündisch) and in the Clinic of Phthisiology (Prof. Z. Barbu). Medicopharmaceutical Institute, Tîrgu-Mureş.
(TUBERCULOSIS, PULMONARY experimental) (PHOSPHATASES metabolism)
(CHLORPROMAZINE pharmacology)

ALMASI, Susana; FILEP, V.; GUNDISCH, M.; KASZA, L.

Electron microscopic study of liver biopsy in the Rotor syndrome.
Stud. cercet. med. intern. 6 no.1&81-85 '65.

GUNDLACH G.

✓ Separation of dinitrophenyls from dinitrophenyl derivatives of amino acids and peptides. P. Turba and Gundlach, Biochem. Z. 326, 322-4 (1955). With anionotropic Al₂O₃, it was possible to sep. dinitrophenyl (DNP) derivs. of amino acids and peptides from dinitrophenol, which occurs in the production of the DNP derivs. and which interferes with the detn. of free amino groups of DNP derivs. of amino acids and peptides. G. Cornish

WILSON, J. M. & T. Y.

Internal parasites of *Macacus rhesus* Macaca, from India. Acta
parasit., Pol. 12, no. 10/35, 397-400. '64.

1. Institute of Parasitology of the School of Agriculture, Lublin.

POLAND

GUNDLACH, Jerzy L.

Department of Parasitology, Agricultural University
College (Katedra Parazytologii W.S.R./Wysza Szkoła
Rolnicza), Lublin.

Warsaw, Acta Parasitologica Polonica, Fasc.22,
30 June 1965, pp 217-225

"The helminth parasites of the starling (Sturnus
vulgaris L.) of the Lublin Paltinate."

GUNDLACH, W.

Gundlach W. Determination of Variations in Volume and Pressure at
Differences in Enthalpy in Polytropic Processes.

„Wyznaczanie zmian objętości i ciśnienia w funkcji zmiany entalpii
w przemianach polityropowych”. (Prace G. Inst. Mechan. Nr. 3), Warszawa,
1931, PW, 4 pp., 3 figs.

A simple (linear) relationship between the ratio of specific volumes
or pressure and the difference in enthalpy for polytropic processes (in
this particular case — of isentropic changes) is arrived at by simplifying
the form of polytropic equation. Coefficients occurring in the formula
are computed for steam and air. A practical example of employing this
method is quoted.

GUNDLACH, W.

2

Gundlach W. The Work in Variable Conditions of an Impulse Turbine Stage.

"Praca skopnia turbiny impulsoj w zmiennych warunkach". (Prace Gt. Inst. Mechan. No. 3), Warszawa, 1931, PWT, 31 pp., 23 figs.

This constitutes a contribution towards consolidating the theory and developing, by means of computations, the practical methods of defining the work of turbines in variable conditions; that is to say ... In the case of variations in the condition of working parts and variability of output, or in the case of variability in the rotational speed of turbines. An analysis is made of the classic means of calculating turbines and of the latest theories and methods developed in this particular sphere. A general definition is given of the principles of calculating turbines, together with a detailed survey of the impulse stage. Corresponding correlations and equations are provided for a generalised

instance of a chamber type impulse stage, and for two special instances. The author gives examples of computations and, on that basis, explains a number of phenomena which, though generally noticed, have not hitherto been explained.

GUNDLACH, W.

2044

SDIB : 636.74 : 621.189

Gundlach, W. Pressure Distributions in Pipes, Nozzles, and Equipment
and Varying Conditions.

"Wymierzanie rozkładu ciśnień w maszynach i urządzeniach przepływowych w zmieniających warunkach pracy". (Prace GI, Inst. Mechan. No. 4), Warszawa, 1958, PWT, 9 pp., 8 figs., 8 tabs.

General graphic methods of reviewing, for a certain arrangement of simple orifices, the mutual dependence between the rate of flow G and the ratio of pressures $p_2 : p_1$. It is possible also, to review the

flow through a system of fixed and rotating blades, much as in the case of simple orifices, particularly when the allowance for the influence of temperature variations is made and when the kinetic energy at the exhaust end is in part used. The author gives analytical equations and auxiliary diagrams which make it possible to solve intricate problems in a simplified manner. Examples of technical applicability of the method described.

det 9/14/65

POL.

3202

031438 : 530.24

Gundlach, W., "Goral E. Economical Heat Recuperation in Gas Turbines,
"Ekonomia rekuperacji ciepła w turbinaach gazowych". (Prace
Inst. Mechan. No. 5), Warszawa, 1952, PWT, 16 pp., 24 figs.

The authors contend that the optimum gas turbine cycle, that is the most favourable as regards economic considerations and design (dimensions, weight) can only be correctly selected if due consideration is given to heat exchange phenomena. Pressure losses in gas turbines with recuperation system are in this respect, and contrary to many expressed opinions, of paramount importance, particularly since they vary within wide limits and are closely linked, though not always lucidly, with such other parameters as have to be closely examined. Adoption of the theory of similarity between heat exchangers has made it possible to allow, with relative accuracy, for — in addition to other factors — the influence of heat exchange on the efficiency of the turbine cycle. Means are thus provided, by correctly separating those functions which individualise the size, first cost and operation expenditure of recuperators, for closely defining the actual saving attributable to heat recuperation.

This method illustrated on an example of a simple Brayton-Joule effect cycle, can also be applied in cases of complex turbine cycles which have intricate flow circulation and for which, by other means, it is virtually impossible to determine optimum conditions.

Gundlach, W.

✓ 621013.1.001.2

Gundlach W. Analysis of the Co-Operation of Compressor and Nozzle.

"Przegl±dowa analiza wspólnego spieczenia i oddzielenia". Artykuł w
Budowy Maszyn (PAN). Nr. 4, Wyszezuw, 1953. PWN, pp. 195-217. 7 figs.

The author discusses the conditions of stable co-operation of a compressor with the main air feeds and indicates the possibility of the appearance of three kinds of stable co-operation limits, namely limit separating the ranges of non-stable and impossible co-operation, the separating the range of non-stable co-operation with the resulting loss of control, and between the ranges of stable and impossible co-operation, or between two ranges of apparently stable co-operation, resulting from the changes in the characteristics of the compressor caused by the detaching of stream-lines. Limits of the second and third types can appear in the co-operation of a given compressor with a given main for several values of the resistance of the main, and as a rule, each limit of this type determines a certain range of sustainable values of the flow strain.

39188
S/262/62/000/007/008/016
1007/1207

26.11.3

AUTHOR: Gundlach, Władysław

TITLE: Sealing of rotating parts of high speed engines and machines

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustroystva, no. 7, 1962, 59, abstract
42.7.277 P. Polish patent, class 14 c, 20/01, no. 42081, August 6, 1959

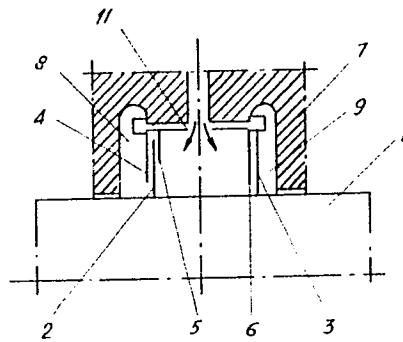
TEXT: Conventional hydraulic sealings (packings) for turbines slightly reduce the turbine power output due to friction between the turbine wheel and the sealing fluid. The type of absolute sealing for which the present patent has been issued, works on the fluid-wedge principle. The machine shaft (1) (see figure) carries two discs (2) and (3) rotating between three immovable discs (4), (5) and (6) fixed to the machine casing. The sealing fluid, fed through the opening (7) in the casing, passes between the discs (2), (4) and (5) of the ring-shaped chamber (8) containing the pressurized working agent (e.g. gas) to be isolated. From this chamber the sealing fluid is recirculated into the system. Another ring-shaped chamber (9) is provided with two discs (3) and (6) and communicates with the surrounding space. The sealing fluid, often passing through this chamber is also recirculated into the system. The movable discs (4), (5) and (6) are mounted on the sleeve (11) connected to the machine casing by means of diaphragms; the latter are designed to compensate for the slight axial displacement of the discs. The new type of sealing may be used for high speed turbines, gas turbo-chargers of high-compression engines, etc.

Card 1/2

✓

Sealing of...

S/262/62/000/007/008/016
I007/I207



Figure

[Abstracter's note: Complete translation.]

Card 2/2

GUNDLACH, Wladyslaw, R., prof., dr., ing.

Remarks on the calculation of a blade annulus and particularly of a rotating annulus. Ciepl masz przeplyw no.34:7-15 '61.

1. Chair of Thermal Flow Machines, Politechnic, Lodz.

(Turbines)

GUNDLACH, Wladyslaw, R.; KUCZEWSKI, St.

An international symposium on compressors, turbocompressors and super-chargers in Prague (Czechoslovakia). Ciepl masz przeplyw no. 34: 31-35 '61.

(Turbines)

GUNDLACH, Wl. R.

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